

Solve for x .

① $3x + 1 = 19$

② $-x - 4 = -17$

③ $7(2x + 4) = -14$

④ $3x + 4 = 4x + 2$

⑤ $3x - 7(2x - 13) = 3(-2x + 9)$

⑥ $3x + 2y = 9$

⑦ $\frac{x}{a} + 1 = \frac{x}{b}$

④

$$\begin{array}{r} \cancel{3x} + 4 = 4x + 2 \\ -3x \quad \quad -3x \end{array}$$

$$\begin{array}{r} 4 = 1x + 2 \\ -2 \quad \quad -2 \\ 2 = x \end{array}$$

$$\textcircled{5} \quad 3x - 7(2x - 13) = 3(-2x + 9)$$

$$3x - 14x + 91 = -6x + 27$$

$$\begin{array}{r} -11x + 91 = -6x + 27 \\ +11x \quad \quad +11x \end{array}$$

$$\begin{array}{r} 91 = 5x + 27 \\ -27 \quad -27 \end{array}$$

$$64 = 5x$$

$$\underline{x = 12.8}$$

⑥

$$3x + 2y = 9$$

$$\begin{array}{r} 3x + 2y = 9 \\ -2y \quad -2y \\ \hline 3x = 9 - 2y \\ \hline \frac{3x}{3} = \frac{9 - 2y}{3} \end{array}$$

$$x = 3 - \frac{2}{3}y$$

7

$$\frac{x}{a} + 1 = \frac{x}{b}$$

$$-\frac{x}{b}$$

$$\frac{x}{a} - \frac{x}{b} + 1 = 0$$

$$-1 \quad -1$$

$$(1) \frac{x}{a} - \frac{x}{b} = -1$$

$$\left(\frac{b}{b}\right) \frac{x}{a} - \left(\frac{a}{a}\right) \left(\frac{x}{b}\right) = -1$$

$$(ab) \frac{xb - xa}{ab} = -1(ab)$$

$$\frac{1}{2} + \frac{1}{3} = ?$$

LCD: 6

$$\frac{3}{3} \left(\frac{1}{2}\right) + \frac{2}{2} \left(\frac{1}{3}\right)$$

$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

$$xb - xa = -ab$$

$$\frac{x(b-a)}{(b-a)} = \frac{-ab}{b-a}$$

$$x = \frac{-ab}{b-a}$$

$$\text{HW} = \frac{1.3, p.21}{1-10, 17-22}$$

odd

31, 35, 52